NPIC/TDS/D-750-67 22 March 1967

MEMORANDUM FOR: Deputy Chief, Dovelopment Staff, TDS

THROUGH : Chief, Support Systems Branch, DS/TDS

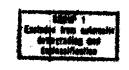
SUBJECT : Evaluation of Special Drying Techniques - Microwave

and Vacuum Drying.

1. On 8 March 1967 a call was made to Westover AFB. Contact was made with Discussion included all commercial organizations the Air Force had contacted in relation to microwave and vacuum drying.	25X1
a. indicated	25X1
that of Wright-Patterson AFB would be aware of	25X1
the work in microwave drying by this firm and by the	25X1 25X1
b. This cor-	25X1
poration built a 35mm microwave dryer for the movie industry.	
They lack interest in continuing a development program for wider photographic materials.	
c	25X1
Microwave Dryer Proposal -	25X1
indicated that this particular concept held: little promise.	25X1
informed us that had performed	25X1
some experimental tests in drying photographic materials in microwave waveguides designed for other numbers. He also	
gave us a contact - and also indicated	25X1
that had conducted vacuum drying experiments.	25X1
2. 13 March 1967 was contacted. A	25X1
discussion was held on microwaye drying and what photographic applications have considered.	d
Truttured time highligh exhall months in	25X1
microwave drying of films had been performed but that this area of work had	
been transferred to another department headed by He indicated	25X1
that would have knowledge of work performed with vacuum drying.	25X1

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3. On 14 March 1967 was contacted.	29×1
was aware of the previous experiments performed by in utilizing	25X1
microwaves for drying photographic films; although work had not continued in this area when the transfer of this responsibility occurred.	25X1
4816d if any work is being performed in weapon devices. Us indicated the	
was involved in a combination of microwave and vacuum drving but no	25X1
in the photographic area. knowledge of drying photographic materials is limited.	25X1
4. On 14 March 1967 of Wright-Patterson AFB was	25X1
contacted. and his department are involved in monitoring the	25X1
contracts for Westover in microwaves and vacuum drying.	
a to town and weather a second	
a. An investigation contract in vacuum drying is being conducted for Wright-Patterson AFB by in Calif.	25X1
Vacuum chambers used in food processing are being utilized	20211
in the drying experiments of photographic films. Separate	
experiments are being conducted to maintain a vacuum in an	
unheated chamber where film is moved in and out of a gate.	
b. The best information on microwave Aming equipment	
b. The best information on microwave drying equipment or breadboards, could be obtained from	25×1
in could be obtained from	25X1
·	
5. On 14 March 1967	25X1
Limited) was contacted. explained that they have built a 9 1/2"	25X1
microwave film dryer breadboard prototype that utilizes 1800 watts of power and runs at about four feet per minute. This can be demonstrated at any time	
In there is a dryer for paper prints using microwave technique	25X1
and runs at two reet per minute. Neither the film per paper driver have been	3
exposed to color materials.	
6 to the entry purchase and the second secon	
6. As the only prototype equipment utilizing microwave techniques. paralleling our requirements, is in	25X1
would be desirable to determine the application of these techniques to our	2321
own requirements within NPIC. Travel orders are being prepared for this trip	_
7. An attempt was made to contact of Westover AFB.	25X1 25X1
is on TDY for several weeks. He will be contacted when he returns	•
	25X1
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